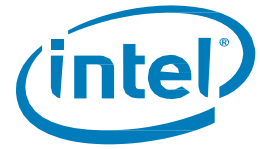


Intel® Solid State Drive Datacenter PCIe* Microsoft* Windows* Driver

Release Notes

July 2019

Software Version 4.3.0.1006



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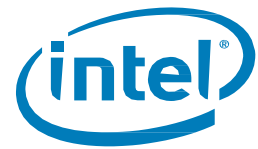
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Driver Revision History

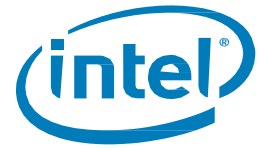
Date	Document Version	Driver Version	Description
July	018	4.3.0.1006	Updated Certification.
April	016	4.3.0.1006	<p>New for this release:</p> <ul style="list-style-type: none"> Resolved possible BSOD when issuing a Query Property temperature request Improved hot plug handling Improved sequential read/write performance with large block sizes <p>Known issues:</p> <ul style="list-style-type: none"> Possible BSOD during System Sleep and Hibernate – currently suspected to be caused by a device/PCI error. No workaround at this time. Possible BSOD during System Sleep and Hibernate with multiple namespaces present
November	015	4.2.0.1002	<p>New for this release:</p> <ul style="list-style-type: none"> Resolved issues with hangs seen with third-party tools that monitor system status via S.M.A.R.T. interface Improved SCSI to NVMe command translation Added support for Windows Server 2019 <p>Known issues:</p> <ul style="list-style-type: none"> Possible BSOD when issuing a Query Property temperature request.
July	014	4.0.0.1007	<p>New for this release:</p> <ul style="list-style-type: none"> DLL injection vulnerability (INTEL-SA-00154) was fixed with this release For more information on INTEL-SA-00154, please visit the following link - https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00154.html



Date	Document Version	Driver Version	Description
February	013	4.0.0.1007	New for this release: <ul style="list-style-type: none"> • Support for public Windows IOCTLS introduced in Windows 10 • Support for features and functionality defined in the NVMe 1.3 specification
December	012	3.2.0.1002	New for this release: <ul style="list-style-type: none"> • Support for Intel Optane DC P4800X Series
October	011	3.1.0.1021	New for this release: <ul style="list-style-type: none"> • Fixed BSOD/enumeration issue during hot plug • Fixed BSOD during Windows 7 OS installation
August	010	3.1.0.1009	New for this release: <ul style="list-style-type: none"> • Support for additional P4600 Intel Datacenter SSD Series skus, not currently supported in prior driver release • Updates to SCSI translation for commands including Mode Select, Read Capacity, Security IN, and EUI64
May	009	3.0.0.1013	New for this release: <ul style="list-style-type: none"> • Support for P4500 and P4600 Intel Datacenter SSD Series • Hardened Driver Security • Updated to NVMe Spec 1.2c • Added support for Get/Set Feature Payloads when using vendor unique feature IDs • Added support for the Storage Firmware Update IOCTL



Date	Document Version	Driver Version	Description
November	008	1.8.0.1011	<p>The following was fixed in this release:</p> <ul style="list-style-type: none"> Unified driver build for P3520 & other Intel Datacenter SSD Series NVMe driver no longer installs over the RSTe driver Adding support for the Windows 10 FW Update IOCTL Fixed Yellow Bang after surprise hot-plug that occurs in some cases Fixed BSOD during queue full condition with I/O Fixed BSOD during S3 resume that occurs in some cases Fixed BSOD during device power down that occurs in some cases on Windows 7
August 2016	007	1.6.0.1001_x32-x64_P3520_only	Added support for P3520 device
		1.7.0.1002	No support for P3520 device
July 2016	006	1.7.0.1002	<p>The following was fixed in this release:</p> <ul style="list-style-type: none"> BSOD during continuous reboot testing NVMe DVL errors blocking Windows Server 2016 Certification
June 2016		1.6.0.1001	<p>New for this release:</p> <ul style="list-style-type: none"> P3520 Dev ID and string recognition added
April 2016	005	1.5.0.1002	<p>New for this release:</p> <ul style="list-style-type: none"> Set SCSI Mode Sense FUA bit as supported Minor performance improvement Implement SCSI Verify translation to NVMe*
September 2015	004	1.3.0.1007	<p>New for this release:</p> <ul style="list-style-type: none"> Windows 10 Certification Single installer for both x32 and x64 based Operating Systems <p>The following was fixed in this release:</p> <ul style="list-style-type: none"> After Uninstall device shows an “unknown device,” it now reports as PCIe* device. BSOD when installed on systems with 0x120 logical Cores Installer using silent install does not copy the license.



Date	Document Version	Driver Version	Description
June 2015	003	1.2.0.1002	<p>The following was fixed in this release:</p> <ul style="list-style-type: none"> • Disable of NVMe Controller takes too long after S3+S4. • WHCK Trim Performance Test executable encounters a divide-by-zero error and fails to execute. • WHCK Rotational Rate Test Fails, Reporting 0 RPM • Update Windows Driver BusType to NVMe
February 2015	002	1.1.0.1004	<p>The following was fixed in this release:</p> <ul style="list-style-type: none"> • 0x9F BSOD during S3/S4 testing • BSOD due to low System Memory under 32bit • Drive does not translate some SCSI commands – READ CAPACITY, REQUEST SENSE and WRITE(6) • Windows Driver INF references Windows XP, there is no driver support and reference was removed
September 2014	001	1.0.0.1023	Initial release version